

## **AGC/WSDOT Structures Team Minutes**

### **May 7, 2004**

#### Members in Attendance

<b>Attendees:</b>	<b>Company</b>	<b>Phone</b>	<b>E-mail</b>
Barney Millard	Conc. Tech.	253-383-3545	<a href="mailto:mbarney@concretetech.com">mbarney@concretetech.com</a>
Hilmes Bob	WSDOT-ER	509-324-6232	<a href="mailto:Hilmesb@wsdot.wa.gov">Hilmesb@wsdot.wa.gov</a>
Kapur Jugesh	WSDOT_HQ	360-705-7209	<a href="mailto:kapurju@wsdot.wa.gov">kapurju@wsdot.wa.gov</a>
Leachman Dan	Kiewit Const.	425-255-8333	<a href="mailto:dLeachman@kiewit-PBD.com">dLeachman@kiewit-PBD.com</a>
McCoy Charlie	Atkinson Const.	425-255-7551	<a href="mailto:cmcco@Atkn.com">cmcco@Atkn.com</a>
Olson Ryan	Mowat Const.	425-398-0205	<a href="mailto:ryanolson@mowatco.com">ryanolson@mowatco.com</a>
Sheikhizadeh M.	WSDOT-HQ	360-705-7828	<a href="mailto:sheikhm@wsdot.wa.gov">sheikhm@wsdot.wa.gov</a>

The meeting began at 9:15 AM. April 9, 04 meeting notes were reviewed and approved without any changes. Others attending the meeting:

Jim Schettler	Jacobs Civil
Mark Hammer	WSDOT, NWR

#### **Steel Price Escalation**

Cost of pre-stressed strands and rebars is continuing to rise. There are some reported shortages of pre-stressing strands. Rebar fabricators have an allotment for each contractor based on volume of past purchases. The Contractors further described WSDOT's new directive with regards to liberal interpretation of materials on hand for payment as a band-aid remedy. Charlie reported that the Graham Steel had just filed for bankruptcy.

**Action Plan:** Monitor steel price and availability

#### **Alternate Stirrup Details for Prestressed Girders**

Jugesh handed out the revised details of the alternate girder stirrups both for prestressed girders and boxes. The revised details are considered to be final alternate scheme to the current practice. The new details meet the needs and requirements of the ironworkers, contractors, fabricators, and FHWA. The latest stirrup details will be tried on a couple of pilot projects before adoption and incorporation into the Bridge design Manual.

**Action Plan:** Use the latest girder stirrup details in a couple of contracts and monitor for successful usage and future general practice.

### **Flat Slab Concrete Barriers**

Mo passed out details for the c.i.p concrete barriers on flat slabs. There was a request from the Bridge Design to have the team evaluate location of the barrier on the flat slab for ease of construction. The members agreed that the back of barrier should be offset from the edge of slab by 1" for constructability.

**Action Item:** Mo will provide the Team's recommendation to the Bridge Design.

### **WACA Annual Training Workshop**

Mo informed the members of the upcoming concrete training workshop by WACA on June 1 in Fife. WACA is seeking input from the contractors for workshop topics that would be beneficial to the contractors' personnel. The following topics were suggested:

- Information on use of an additive called "Confilm" to prevent early dehydration of concrete
- Use of Maturity Meters
- Information on an additive called "hardcem" that provides more longevity in pavements in terms of early rutting in concrete

**Action Item:** The Contractors will need advance notices from WACA of the workshop dates for their participation.

### **Vibration Limits Specifications**

Jim said that he'd present his final recommendation to the Team for the next meeting. He is still reviewing past research on this topic.

**Action Plan:** Continue the discussion in the June meeting.

### **Evaluation of The 14 Days Wait Before Backfilling Walls**

Jugesh handed out the results of his parametric study on retaining wall creep. The current Specs do not allow the contractor to backfill retaining walls sooner than 14 days and 90% compressive strength. The contractors had sought some relief for shortening the waiting period. The parametric study results indicate that creep is not a concern for wall heights shorter than 15'. The Bridge Design Office is comfortable waiving the 14 day waiting requirement for walls 15' or less in height.

**Action plan:** Mo will draft and propose a change to the Specifications based on the above recommendation for the team's review in June.

### **P.T. Grouting Florida's Practice**

Millard presented a video of Florida's post-tensioned tendon grouting practices. Some of the highlights:

- Use of preparatory non segregating grout
- Volume of grout in tendons is shown on the shop drawings
- Pre-grouting meeting is required
- The contractor is required to have back up equipment available
- 11 to 30 seconds flow in accordance to the ASTM C 1139

**Action Plan:** WSDOT is evaluating use of non-segregating grout. No further discussions are needed at this time.

**Future Meeting Dates**

July 16

Aug 13

Sep 17

Oct 22

Nov 19

The meeting adjourned at 12:00 PM

**Next meeting is on June 18, 04**